

L 38937-66 EWP(t)/ETI JD

ACC NR: AP6029722~

SOURCE CODE: CZ/0043/65/000/012/0918/0924

AUTHOR: Nenov, Nedjalko (Sofia); Popov, Christomil--Popov, Kh. (Sofia);  
Tomov, Trifon (Sofia); Stefanov, Georgij (Sofia); Tolgyessy, Juraj--Tel'deshi, Yu.  
(Docent; Engineer; Candidate of sciences; Bratislava)

ORG: [Nenov; Popov; Tomov; Stefanov] Laboratory for Activation analysis, Geological  
Research Institute, Main Administration of Geology and Protection of the Earth's  
Minerals; [Tolgyessy] Department of Radiochemistry and Radiation Chemistry, Slovak  
Technical University, Bratislava (Katedra radiochemie a radiacnej chemie Slovenskej  
vysokej skoly technickej)

TITLE: Nondestructive determination of  $As^{11}$  in ores and minerals containing high  
amounts of Mn by means of neutron activation analysis

SOURCE: Chemicke zvesti, no. 12, 1965, 918-924

TOPIC TAGS: neutron radiation, analytic chemistry, gamma spectrometer, scintillation  
spectrometer

ABSTRACT: The authors describe a method that may be used in the presence of above  
1% of Mn without subjecting the sample to a radiochemical treatment; the samples  
are irradiated for 20 minutes by a stream of neutrons in a nuclear reactor. They  
are left standing for 70 hours so that interfering radiocompounds would be  
decomposed, and then As is determined by using a 400 channel scintillation gamma  
spectrometer. Sensitivity is  $5 \cdot 10^{-6}$  grams, accuracy  $\pm 15\%$ . Orig. art. has:  
2 figures and 3 tables. [JPRS: 34,669]

SUB CODE: 07 / SUBM DATE: 03Jun65 / ORIG REF: 001 / SOV REF: 001 / OTH REF: 007  
Card 1/1

TOMOV, Todor, inzh.

Leveling of rice-sown areas. Khidrotekh i melio 7 no.10:315-317  
'62.

TOMOV, Trifon; IVANOV, Vasil

Phagocytosis of leucocytes, and its regulation. Priroda Bulg  
13 no. 2:6-11 Mr-Apr '64.



TOMOV, Vl.; KOMANDAREV, St.

Possibility of preventing recurrences of echinococcosis in man  
by applying the proteolytic enzyme Papain. Izv khelminth lab  
BAN 9:129-134 '64.

TOMOV, V.I., prof.; VASILEV, Iv., dotsent; MILEV, M.; BAEV, St.

Acute cholecystitis in aged patients. Khirurgiia 17  
no.2:220-222 '64.

1. Iz Katedrata po fakultetska khirurgiia pri VMI [Vissh  
meditsinski institut] - Sofia.

TOMOVA, Ana; PETRAKIEV, Angel

Technology and machinery in the antierosion cultivation  
of vineyards on slopes. Izv mekh sel'sko stop BAN 4 5-21  
'63.

BANKETOV, A.K.; VERIGO, K.N.; MAKRUSHINA, Ye.A.; SEDOVA, G.A.;  
TOMOVA, I.S.; FOMICHEV, L.Kh., red.; TROITSKIY, A.V.,  
red.; VELLER, L.Ye., red.; LOGINOVA, Ye.I., tekhn.red.

[Copper industries in capitalist countries] Mednaia pro-  
myshlennost' kapitalisticheskikh stran. Moskva, Pt.1.  
[Mining and treatment of copper ores] Dobycha i obegashchenie  
mednykh rud. 1962. 171 p. (MIRA 16:4)

1. Moscow. Tsentral'nyy institut informatsii tsvetnoy metal-  
lurgii.

(Copper mines and mining) (Ore dressing)



TOMOVA, Kata, dipl. inz.

Secondary education and training of technicians for the  
Bulgarian canning industry. Prum potravin 14 no. 9:  
458-460 S '63.

1. Stredni odborna skola potravinarskeho prumyslu, Plovidiv.

PEICHEV, P.; IVANOV, V.; TOMOVA, M.

Extraction and pharmacological activity of some preparations of  
Achillea millefolium. Trud Khim-farmatsevt inst 4:52-53 '63.

VAKLINOVA, S.; SHTARBANOVA, E.; TOMOVA, N.

Using the nitrate and ammonia nitrogen at the formation of some amino acids in the process of photosynthesis. Doklady BAN 15 no.3:293-296 '62.

1. Predstavleno akad. R. Georgievoy [Georgieva, R.].

TOMOVA, N.; LINKOVA, E.; SPEKTOROV, K.

The effect of different nitrogen sources on the growth and development of a synchronous culture of *Chlorella pyrenoidosa* Pringsh. 82. Doklady BAN 17 no.8:757-760 '64.

1. Institute of Plant Physiology of the Bulgarian Academy of Sciences. Submitted by Academician I. Emanouiloff [Emanuilov, I.].

L 30179-66 SCTB DD

ACC NR: AP6020313

SOURCE CODE: BU/0011/65/018/007/0659/0662

AUTHOR: Vaklinova, S.; Tomova, N.; Nikolova, E.; Secenska, M.

ORG: Section of Biochemistry, Institute of Plant Physiology, BAN.

TITLE: Effect of certain factors on the photooxidation of hydroxylamine in isolated chloroplasts

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 7, 1965, 659-662

TOPIC TAGS: chloroplast, hydroxylamine, photooxidation, enzyme, plant chemistry, chlorophyll

ABSTRACT: The authors established earlier that in isolated chloroplasts there occur processes of photooxidation of hydroxylamine to nitrile (Compt. rend. Acad. bulg. Sci., 17, 1964, no. 3, 283) accompanied by absorption of molecular oxygen (Ibid., 17, 1964, no. 11, 1051). Hydroxylamine seemed to be the donor of electrons in a reaction catalyzed by light, and the final acceptor was the molecular oxygen. The present paper deals with the changes in the oxidation rate of hydroxylamine due to the substrate of the reaction (NH<sub>2</sub>OH), the chlorophyll concentration, the pH of the chloroplast suspension, and the temperature. All results seem to indicate that the photooxidation of hydroxylamine is a light-induced enzyme process. This paper was presented by Academician Emanuiloff on 20 March 1965. Orig. art. has: 5 figures. [Orig. art. in Eng.]

[JPRS]

SUB CODE: 06 / SUBM DATE: 20Mar65 / ORIG REF: 002 / OTH REF: 001  
Card 1/1 9.2

L 30182-66 SCTB DD

ACC NR: AP6020316

SOURCE CODE: BU/0011/65/018/007/0671/0674

AUTHOR: Vaklinova, S.; Tomova, N.

ORG: Section of Biochemistry, Institute of Plant Physiology, BAN

TITLE: Influence of temperature on the reduction of nitrite in higher plants in light and in darkness

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 7, 1965, 671-674

TOPIC TAGS: nitrite, plant chemistry, ohlorophyll, low temperature effect, enzyme, photosynthesis

ABSTRACT: It is currently believed that the photoreduction of nitrite is an enzymatic and not a purely photochemical process (E. Kessler, in "Research in photosynthesis", Interscience Publishers, Ltd, London; N. P. Voskresenskaya, Dissertation). To elucidate this problem, use is usually made of low temperatures delaying the enzymatic effect without affecting the photochemical reactions. The present article contains data about the influence of temperature on the speed of the reduction under light or in darkness of nitrites in leaves of higher plants. This investigation also made use of chlorophyll-less leaves which are a convenient model for studying the nitrite reduction during exposure to light as compared with that in normal green leaves. The results obtained show that raising the temperature increases the reduction speed of both nitrates and nitrites. This leads the authors to

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ACC NR: AP6020316

believe that this is also the case of plants cultivated on soil, though the effect is obscured by the nitrites obtained as a result of the more intense reduction of the existing nitrates at the higher temperatures. The delaying influence of low temperature is particularly pronounced in nitrite reduction in chlorophyll-less leaves during exposure to light and during the reduction of green leaves in darkness. This paper was presented by Academician I. Emanouiloff on 27 March 1965. Orig. art. has: 3 tables. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUBM DATE: 27Mar65 / ORIG REF: 001 / OTH REF: 005  
SOV REF: 004

Card

2/2

87

1 1965-56 1/2(1) 8024 DD/AD-2

ACC NR: AP6020317

SOURCE CODE: BU/0011/65/018/007/0675/0678

AUTHOR: Tomova, N.; Dechev, G.; Secenska, N.

ORG: Section of Biochemistry, Institute of Plant Physiology, BAN; Section of Biophysics, Institute of Plant Physiology, BAN

TITLE: Light-induced consumption of molecular oxygen from isolated chloroplasts in the presence of potassium cyanide

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 7, 1965, 675-678

TOPIC TAGS: chloroplast, oxygen, photosynthesis, enzyme, redox reaction, potassium compound

ABSTRACT: Isolated chloroplasts without addition of Hill's reagents consume molecular oxygen (A. N. Mechler, Arch. Biochem., 33, 1951, 65; L. S. Grishina, N. P. Voskresenskaya, Dokl. AN SSSR, 151, 1963, 452) under illumination. This absorption is intensified by the addition of certain substances. The part played by oxygen in the electron-transport reactions in isolated chloroplasts is presently investigated in close relation to photosynthetic phosphorylation. This paper reports on experiments showing that isolated spinach chloroplasts consume molecular oxygen most intensely in the presence of KCN and under illumination. Numerical results presented in the form of graphs indicate that transfer of electrons takes place with the participation

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L 1962-66

ACC NR: AP6020317

of a number of intermediary electron carriers, enzymes included, and the specificity of the substrate of the reaction (KCN) and the high concentrations used seem to indicate that the part of "final oxidase", i.e., of a transfer This paper was presented by Academician I. Emanouiloff on 1 April 1965. Orig. art. has: 3 figures. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUBM DATE: 01Apr65 / ORIG REF: 002 / OTH REF: 011  
SOV REF: 002

Card

2/2/5

TOMOVA, N.G.; YEVSTIGNEYEVA, Z.G.; KRETOVICH, V.L.

Assimilation of nitrate and ammonium nitrogen by *Chlorella*  
*pyrenoidosa* Pringsheim 82T. Fiziol. rast. 11 no.6:988-997 N-D '64.  
(MIRA 18:2)

1. Popov Institute of Biology, Bulgarian Academy of Sciences,  
Sofia and A.N. Bakh Institute of Biochemistry, U.S.S.R. Academy  
of Sciences, Moscow.

TOMOVCIK, J., doc., inz., CSc., PROCHAZKA, B., inz., SRNKA, F.,  
inz.

Some results of the research on formation, treatment, and  
properties of windrows made by different types of windrowers.  
Zemedel tech 9 no. 5/6 401-416 D '63.

1. PrevadzkoOekonomicka fakulta, Vysoka skola polnohospodarska,  
Nitra.

TOMUSHKIN, V.S.

KUSHLEV, V.V., inzh.; TOMUSHKIN, V.S., inzh.

Using bituminous glue for heat insulating materials. Sudostroenie  
23 no.8:61-62 Ag '57. (MIRA 10:11)  
(Insulation (Heat)) (Bituminous materials)

UKSHE, Ye.A.; TOMSKIKH, I.V.

Effect of the nature of the electrolyte on the electrocapillary curves of lead in fused salts. Dokl. AN SSSR 150 no.2:347-348  
My '63. (MIRA 16:5)

1. Bereznikovskiy filial Vsesoyuznogo alyuminiyevo-magniyevogo instituta. Predstavleno akademikom A.N.Frumkinym.  
(Electrocapillary phenomena) (Lead) (Electrolytes)

TOMOSKOZI. I.

SCIENCE

PERIODICAL: MAGYAR KEMIAI FOLYOIRAT. Vol. 64, no. 7/8, July/Aug. 1958

Tomoskozi, I. Stereochemistry of Prins reaction and its application to ketones. p. 301.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, no. 2,  
February 1959, Unclass.

3(5)

SOV/11-59-10-10/16

AUTHOR: Radkevich, Ye. A. and Tomson, I.N.

TITLE: The Superimposition of Mica-Fluorite-Topaz Mineralization on Sulfide Mineralization in the Shcherbakovka Ore Field

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, No. 10, pp 107-114 (USSR)

ABSTRACT: The Shcherbakovka mineral deposit (Yuzhnoye Primor'ye - Southern part of the Soviet Far East) is formed of tin-polymetallic cassiterite-sulfide veins occurring in Paleozoic sedimentary rocks. They form a series of vein zones associated with the parallel faults of north-western orientation. There are following paragenetic associations corresponding to different mineral-forming stages: 1) Quartz-arsenopyrite association with cassiterites; 2) sulfide, pyrrhotine-galenite-sphalerite association with cassiterites; 3) Carbonate-sulfide association with fahlerz, boulangerite, stannite, pyrrhotine, sphalerite and galenite; and 4) chalcedony-calcite-antimonite association with pyrrhotine, boulangerite, jamesonite, antimonite and other antimonite minerals. All these mineral associations were formed

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SOV/11-59-10-10/16

The Superimposition of Mica-Fluorite-Topaz Mineralization on Sulfide Mineralization in the Shcherbakovka Ore Field

in consecutive stages of a single metasomatic process, which explains their geological occurrence and the repetition of the same minerals in different associations. The mica-fluorite-topaz formations associated with cassiterites discovered at the Shcherbakovka deposits, intersect the earlier formed sulfide and sphalerite-pyrrhotine veins. The texture of these intersecting veins is characterized by the occurrence of radial, banded and wavy thinly-crystalline agglomerations presumably formed in conditions of a rapid decrystallization caused by a sharp fall in the temperature. As the four mentioned associations were formed by magmatic solutions at a temperature steadily falling at each stage, the author thinks that the mica-fluorite-topaz mineralization occurred in conditions of a suddenly increased temperature. Presumably another "portion" of rejuvenated magmatic solution reached the deposit after the first veins were already formed. There are 7 photographs, 1 diagram, and 1 table.

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SOV/11-59-10-10/16

The Superimposition of Mica-Fluorite-Topaz Mineralization on Sulfide Mineralization in the Shcherbakovka Ore Field

ASSOCIATION: Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva (Institute of Geology of Mineral Deposits, Petrography, Mineralogy and Geochemistry of the AS USSR, Moscow)

SUBMITTED: March 16, 1958

Card 3/3

TONOSY, J.

"If the Output of Diesel Motors is not Satisfactory", P. 12, (AUTO MOTOR, Vol. 7, No. 12, June 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

TONOSY J.

"Methodic Localizing of Defects", P. 12. (AUTO MOTOR, Vol. 7, No. 12,  
June 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EFAL), LC, Vol. 4,  
No. 1, Jan. 1955, Uncl.

TOLOS, J.

"Attention, Motorcyclists!" P. 13, (AUTO MOTOR, Vol. 7, No. 12  
June 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EFAL), LC, Vol. 4,  
No. 1, Jan. 1955, Uncl.

TOMOSY, J.

In order to have less trouble with an accumulator. p. 9, (ANTIC MOTOR,  
Budapest, Hungary), Vol. 7, No. 18, Sept. 1954.

SC: Monthly List of East European Accessions, (EEAL), IC, Vol. 4,  
No. 5, May 1955, Uncl.

TOMOSY, J.

"The Dynamo Also Needs An Overhaul", P. 9. (AUTO MOTOR, Vol. 7,  
No. 19, Oct. 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,  
No. 1, Jan. 1955, Uncl.

TOMOSY, J.

"How the Bowden Cable Should be Repaired", P. 10. (AUTO NOTOR, Vol. 7,  
No. 19, Oct. 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,  
No. 1, Jan. 1955, Uncl.

TOMOSY, J.

"Description of the Moskvich 401-420", P. 11. (AUTO MOTOR, Vol. 7,  
No. 19, Oct. 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 4,  
No. 1, Jan. 1955, Uncl.



TOMOSY, J.

"Again the Accumulator" P. 12 (AUTO MOTOR, Vol. 7, No. 20, Oct. 1954,  
Budapest Hungary)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,  
No. 1, Jan. 1955, Uncl.

TOMDSY, J.

"Heaters on the motorcar." p. 24. "The balance of the 12-hour race of the Labor Reserves." p. 25. "Until the raising of the checkered flag." p. 26. "The training course finished with good results." p. 27. "Technical data of the 250 cubic centimeter Csepel motorcycle." p. 30. (AUTO MOTOR, Vol. 5, no. 24, Dec. 1952. Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress  
August, 1953, Uncl.

TOMOSY, Jeno, M.

Electricity and the motor vehicle. Musz elet 15 no.19:1 S '60.  
(EEAI 9:12)

(Automobiles)

TOMOSY, J.

Tomosy, J.

"Setting of ignition on motorcycles." p. 6.  
(Auto Motor. Vol. 6, no. 13, June 1953, Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, No. 9, Library of Congress, September 1953, Uncl.

TCMCSY, JENC M.

Gepiarmu-villamossagi hibakereses es javitas (Locating and Repairing Electric Defects in Motor Vehicles); a book review. p. 403. KOZLEKEDESTUDCMANYI SZEMLE. Budapest. Vol. 5, No. 10, Oct. 1955

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956

TCMOSY, J.

TCMOSY, J. - Auto Motor - Vol. 8, no. 10, May 1955.

Conference on automobile repairs and on problems of quality. p. 3.

A "devil's kitchen" where wrecked automobiles are rebuilt miraculously. p.5.

Adjustment of devices for regulation of potential. p. 9.

Amateur repairs of motors. p. 10.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955  
Uncl.

TOMOSY, J.

Can the blinding effect of headlights be eliminated? p. 9  
AUTO MOTOR. (Kozlekedesi Kiado) Budapest. Vol. 9, no. 8 Apr. 1956  
Thoughts on the future of Hungarian motorcycles. p. 10

Source: EEAL - LC Vol 5. No. 10 Oct. 1956

TOMOSY, M. Jeno

Let us talk about electricity. Auto motor 14 no.10:14 My '61.



TONCSEY, J.

Planned and preventive maintenance of electric equipment. p. 9.

What should be known about the Donga. (To be contd.) p. 10.

AUTO MOTOR, Budapest, Vol. 8, no. 13, July 1955.

SO: Monthly List of East European Accessions, (BEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Incl.

TOMOSY, J.

Testing device for the ignition. p. 10.  
AUTO MOTOR, Budapest, Vol. 8, no. 15, Aug. 1955.

SO: Monthly List of East European Accessions, (MEML), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

TOMBSY, H.

"The glow equipment of Diesel engines." p. 6. "Gas turbine on the Gregoire automobile." p. 7. (AUTO MOTOR, Vol. 6, no. 7, Apr. 1953. Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress  
August, 1953, Uncl.

TOMOTI, Z.; KOPAS, J.; DOLIAK, M.

Effect of Haemophilus pertussis and of its endotoxin on cough and respiration in acute experiment. Cesk. fysiол. 7 no.3:264-265 May 58.

1. Ustav experimentalnej patologic Lekarskej fakulty Univerzity Komenskeho v Kosiciach a Imuna v Michalanoach nad Torysou.

(HEMOPHILUS PERTUSSIS,

eff. of bact. suspensions & endotoxin on resp. & cough in animals (Cz))

(COUGH, exper.

eff. of Hemophilus pertussis suspensions & endotoxin (Cz))

(RESPIRATION, physiол.

same)

OVCHAROVA, R.; TOMOV, A.; ABADZHIEV, M.

On the problem of neurouveitis. Suvrem med., Sofia no.12:41-46 '60.

1. Iz Katedrata po nervni bolesti pri ISUL (Rukov. na katedrata  
dots. G.Nastev)  
(UVEITIS)

16 NOV 1958, EXTRACTA MEDICA Sec 15 Vol. 11/1 Chest Dis. Jan 58

172. TOMOV BL. *The clinical significance of mediastinal tumours of neurogenic origin* (Bulgarian text) *Khirurgija* (Sofia) 1956, 9/5 (385-398) Illus. 12

Mediastinal tumours have come to the fore with the recent improvements in intrathoracic surgery and anaesthesiology. Special emphasis is placed on the surgical approach and the local anaesthesia under which mediastinal operations are performed. Wischnewsky's method of local anaesthesia preceded by vagosympathetic block is recommended (homolateral block). Intratracheal anaesthesia is required in the case of adhesions between the tumour and the pleural leaves on both sides. The various types of tumour in the anterior and the posterior mediastinum are discussed with reference to properties, clinical, prognostic and therapeutic aspects. The paper is chiefly concerned with neurogenic tumours of the posterior mediastinum, which are of the greatest clinical and practical significance. An exhaustive description is given of the various types of neurogenic tumour, with reference to localization, origin, connection with the mediastinal organs and histological structure; clinical and therapeutic aspects of these neurogenic intrathoracic tumours are also discussed. The greatest importance is attached to the diagnosis and differential diagnosis of these neoplasms, which are only too easily confused with benign tumours or pulmonary or thoracic cysts. Methods of differentiation are described. Six cases are reported, which were correctly diagnosed and successfully operated on. The tumours were removed, the wound primarily closed and the patient was discharged as cured within a short period of time. Definite diagnosis was based in all cases on histological findings. The paper is illustrated by X-rays made before and after operations, photographs of resected specimens and microphotographs. (IX, 5, 15, 16)

TOMOV, Borislav, inzh.

Switching over to 380/220 volts in Sofia. Tekh delo no.433:3  
7 J1 '62.

TOMOV, B.N., podpolkovnik Bolgarskey Narodney armii.

Organizing and conducting tactical training. Voen.vest. 36 no.9:  
33-39 S '56. (MLRA 9:10)

(Bulgaria--Army--Infantry)



TOMOV, G.

"Polyamides, nylon"

Tekhnika. Sofia, Bulgaria. Vol. 8, no. 2, 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclass

ORIGIN : Bulgaria  
 COUNTRY :  
 REF. SOUR. : Revista, No. 21 1959No.  
 AUTHOR : Tomov, G. H.  
 INST. : Not given  
 TITLE : Polyamides  
 ORG. NO. : Tekhnika (Bulgaria), 8, No. 2, 20-24 (1959)  
 ABSTRACT : General data on the chemical structure, production, and properties of polyamides and their processing into industrial plastics and chemical fibers are presented.  
 1959 1/1 296

TOMOV, I.; MADZHAROV, N.; IVANOV, Iv.S.

Optimization of the work of electric-arc steel furnaces with  
the aid of extremal regulation systems. Godishnik mash elekt  
13 no.2:35-48 '63 [publ. '64].

CENUSE, G., ing.; TOMOV, I., ing.; CENUSE, V., ing.; MELENCIUC, Vl., ing.

Methods and means of mechanized filling in underground works.  
Pt.2. Rev min 15 no.7:325-329 J1 '64

B/005/62/000/001/002/002  
D274/D303

AUTHORS: Petkov, T., Tomov, I., and Kyupribashev, R., Engineers

TITLE: An automatic device for controlling the hardness of machine components by a magnetic method

PERIODICAL: Mashinostroene, no. 1, 1962, 43 - 45

TEXT: Investigations were carried out at MEI, Sofia, in order to determine the possibility of constructing an automatic device which can grade machine components according to their hardness. The object of the investigations was the dependence between the residual magnetic induction Br in the investigated specimens and the hardness (thermal treatment). Cylindrical specimens were found to be most suitable for the experiment. Three types of steel were tested: ordinary carbon steel, steel CT 45 (ST45) and alloyed steel CT 4 X BC (ST4KhVS). Similar specimens were thermally treated, and then magnetized in a constant electromagnetic field for 10 sec. Afterwards, each of the specimens was dropped from the same height through a measuring coil. In this way it was proved that the residual induction is almost equal for the different components.

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B/005/62/000/001/002/002  
D274/D303

An automatic device for controlling ...

A millivoltmeter connected to the coil indicates the e.m.f. induced in the coil by the residual magnetic flux of the specimens. The results show that it is possible to obtain the necessary substantial difference in the signals at the output of the coil, when there is a minimum difference in the hardness of the components. It is necessary for one of the electromotive voltages (obtained when the specimen enters or leaves the coil) to be amplified in order to start some working (e.g. sorting) mechanism. The other electromotive voltage must be 'cut down'. A full diagram of the amplifier is given. The amplifier was calculated for thyratrons type ТГ 1 - 0.1/0.3 (TG1) and an a.c. relay РЭС 6 (RES6). This device can be used as a basis for a full scale automatic controlling device - The Remanentoscope which will be able to grade components according to their hardness. The efficiency of such a device can reach 1000 to 7000 components per hour. There are 8 figures and 4 Soviet-bloc references.

Card 2/2

TOMOV, I., inzh.; MADZHAROV, N., inzh.

A system of automatic optimization. Elektroenergiia 13 no.1:  
10-13 Ja '62.

ТОМОВ, К., инж.

Мультисканер гамма спектрометра. Наука i tekhn. mladezh 16 no.6:  
32 164



**"APPROVED FOR RELEASE: 04/03/2001**

**CIA-RDP86-00513R001756220014-3**

**APPROVED FOR RELEASE: 04/03/2001**

**CIA-RDP86-00513R001756220014-3"**

TOMOV, K.

Concerning the Production of Seamless Rubber Articles. LEKA PROMISHLENOST  
(Light Industry) 4:22: April 55

ture upon the  
removal of bottles

3505

1111

TCMOV, K.

TCMOV, K. The material called Manipern. p. 33.

Vol. 5, No. 3, 1956.

RADIO

TECHNOLOGY

Sofia, Bulgaria

So: East European Accession, Vol. 6, No. 2, Feb. 1957

RASHEV, M.; TOMOV, L.; VASILEV, M.; ZOGRAFSKI, B.; STANCHEV, L.; VLADIMIROV, V.;  
KUNOV, A.; KAMBUROV, I.; ANGAROV, G.; STAIKOV, G.; ORBETSOV, M.

Comparative clinical considerations on influenza epidemics in 1952,  
1957 and 1959 in our country according to data of the internal clinic  
of the Sofia Higher Medical Institute. Nauch. tr. vissh. med. inst.  
Sofia 40 no.2:1-27 '61.

1. Predstavena ot prof. M. Rashev, rukovoditel na Katedrata po vutreshni  
bolesti.

(INFLUENZA epidemiol)

TOMOV, L.

Experience of Ruse harbor in utilizing mechanization for raising labor productivity.  
p.51.

(TRANSPORTNO DELO, Vol. 9, no. 6, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

TOMOV, Liubomir, D-r.; kand. na medits. nauki, VIADIMIROV, Vladimir, D-r.

Myocardial infarct. Izv. Mikrob. inst., Sofia no.8:433-452 1957.

1. Institut po eksperimentalna meditsina (dir.: akad. prof. D. Orakhovats)  
pri ban i katedra po fakultetska terapiia (zav.: ch. -kor. prof. K. Chilov  
pri visshia meditsinski institut v Sofia.

(MYOCARDIAL INFARCT, manifest.

ECG (Bul))

(ELECTROCARDIOGRAPHY, in various dis.  
myocardial infarct (Bul))

TOMOV, L., D-r., kand, na medits, nauki, VIADIMIROV, Vl., D-r.

Clinical importance of the electrocardiogram in relation to Botkin's disease. Izv. Mikrob. inst., Sofia no.8:453-463 1957.

1. Katedra po fakultetska terapija (zav.: prof. Kanst. Chilov pri visshia meditsinski institut v Sofia.

(HEPATITIS, INFECTIOUS, manifest.

ECG (Bul))

(ELECTROCARDIOGRAPHY, in various dis.  
hepatitis, infect. (Bul))



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"Clinical testing of Cytisine, a preparation made from a Bulgarian drug."

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No. 1, 1957.

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Unclassified

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Monthly List of East European Accessions Index (EEAI), The Library of Congress, Volume 8, No. 8, August 1959.

Unclassified

STANCHEV, L.; TOMOV, L.

Abscess-forming bronchiectasis with rupture into the pericardium. Suvrem. med., Sofia 8 no.9:91-95 1957.

1. Iz Katedrata po patologiczna anatomia pri VMI - Sofia Zav. katedrata prof. B. Kurdzhiev. Katedrata po fakultetska terapija pri VMI - Sofia Zav. katedrata: Prof. M. Rashev.

(BRONCHIECTASIS, compl.

abscess-forming with rupt. into pericardium)

(PERICARDIUM, rupture

abscess-forming bronchiectasis with rupt. into pericardium)

(ABSCESS, etiol. and pathogen.

bronchiectasis, with rupt. into pericardium)

TOMOV, L.; STANCHEV, L.

Successful therapy of a case of Felty's syndrome with irgapyrine.  
Suvrem. med., Sofia 8 no.10:112-118 1957.

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prof. M. R. Rashev).

(AMINOPYRINE, ther. use,  
irgapyrine in Felty's synd. (Bul))

(PHENYIBUTAZONE, ther. use,  
same)

(ARTHRITIS, RHEUMATOID, therapy,  
Felty's synd., irgapyrine ther. (Bul))

Country : Bulgaria T  
Category= : Human and Animal Physiology, Circulation  
Abs. Jour. : Ref Zhur Biol, No. 2, 1959, No. 8074  
Author : Tomov, L. Vladimirov, V.  
Institut. : The Medical Institute of the Bulgarian Academy of Sciences  
Title : The Clinical Significance of the EKG in Infectious Hepatitis.  
Orig. Pub. : Izv. Med. in-ti Bolg. AN, 1957, 14, 453--463  
Abstract : no abstract

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1. Candidate Medical Sciences.

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(HYPERTENSION, compl.

congestive heart failure (Bul))

(CONGESTIVE HEART FAILURE, etiol. & pathogen.  
hypertension (Bul))



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91-96 1955.

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K.Chilov) pri Visshia meditsinski institut V.Chervenkov -  
Sofia.

(HEART,  
echinococcosis, case report)  
(ECHINOCOCCOSIS,  
heart, case report)

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1955.

1. Iz klinikata po fakultetska terapija pri Visshia meditsinski  
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(SLEEP, therapeutic use,  
hypertension)

(HYPERTENSION, therapy,  
sleep ther.)

*Tomov, L.*  
CHILOV, K.; prof.; TOMOV, L.; VLADIMIROV, Vl.; STANCHEV, L.; NIKOLAEV, I.,  
ATANASOVA, M.

Considerations on hypertension. Suvrem. med., Sofia 6 no.3:  
6-10 1955.

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institut V.Chervenkov - Sofia (direktor: prof. K.Chilov)  
(HYPERTENSION)

TOMOV, L.; PANDOV, KH.; STANCHEV, L.; VLADIMIROV, Vl.; KUNOV, A.

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1. Iz Katedrata po vutreshni bolesti pri vishia meditsinski institut, Sofia. (Rukovoditel na katedrata prof. M. Rashev)

(RHEUMATISM blood) (BLOOD PROTEINS)  
(ELECTROPHORESIS)

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no.9:35-44 '61.

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Sofia. (Rukov. na katedrata prof. M. Rashev)

(RHEUMATIC HEART DISEASE diag)  
(ELECTROCARDIOGRAPHY)

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Our experience with the treatment of rheumatism. Suvr. med. 12 no.8:  
3-17 '61.

1. Iz Katedrata po vutreshni bolesti pri visshia meditsinski institut,  
Sofia (Rukov. na katedrata prof. M. Rashev)

(RHEUMATISM ther)

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d-r. kand. na med.nauki.

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11-12:65-88 1955.

1. Chlen-korrespondent, prof. Konstantin Chilov, Klinika po  
fakultetska terapija (zav.:prof. K. Chilov) pri Vishia meditsin  
ski institut V. Chervenkov.

(HYPERTENSION, physiology,  
ECG)

(ELECTROCARDIOGRAPHY, in various diseases,  
hypertension)



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p. 13 (Kooperativno Zemedelie, No. 6, June 1958, Sofia, Bulgaria)

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Nov, 1958

BULGARIA/Cultivated Plants - Grains.

M-2

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29720

Author : Talkiyev, G., Tomov, N.

Inst : -

Title : Corn Seed Stimulation Experiments Made at the Agricultural Experimental Station in Polyanovograd.

Orig Pub : Selskostop. mis"1, 1957, 2, No 3, 181-183 (bolg.).

Abstract : The treatment of corn seeds in solutions of KBr and  $\text{Na}_2\text{SO}_4$  had no positive results. The corn yield raised from the seeds processed with KBr and  $\text{Na}_2\text{SO}_4$  totalled 92 and 89% of the corn harvest derived from seeds which were soaked in water.

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Nov. 1955, Uncl.

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1. "An Improved Type of Tent for Drying Alfalfa," Ivanika DOBRYA, Junior Scientific Collaborator at the Regional Livestock Scientific Research Institute in Rostov; pp 2-4.
  2. "Our Experience with Preserving Green Alfalfa with Soda Washes," Ivan DUKOV, Chairman of the Red to Communist Cooperative Farm in Ispertan; pp 5-8.
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  4. "The Influence of the Age of Hogs for Breeding Purposes on Some of Their Productive Characteristics," Ivan VANCE, Senior Assistant, "G. Dimitroff" Agricultural Scientific Institute and "State Farm"; Agricultural (Senior Zoologist); G. Dimitroff State Farm); pp 12-14.
  5. "Completed Mechanization of the Poultry Pen in the Village of Malonovo, Kamo Circle," Stefan MILANOV, Chief Zoologist at the "V. Lenin" Cooperative Farm; pp 15-22.
  6. "Many Paths Lead to Cheap Production," Stojka TITOVA, Poultry Keeper at the cooperative farm in the village of Dropla (Tolbunovo), holder of the Order of the Red Banner of Labor; and people's representative, as told to G. UCHALEV; pp 23-25.
  7. "The Daily Productivity of Damonian and Draft Horses in the Utilization of Agricultural Crops," Ivan YOROV, Junior Scientific Collaborator, Livestock Scientific Research Institute, Koshinovo; pp 26-29.
  8. "Feeding as a Factor in Breeding," Professor Petko IVANOV; pp 30-34.
  9. "Our Experience with Breed Improvement" Petur GREGOROVSKI, Director of the breed improvement station in Avila Station; pp 35-39.
  10. "The Artificial Insemination of Cows with Sperm Mixed in a Bicarbonate-phosphate Injecting Agent," Petar TOMOV and Ivanika DOBRYA, director and zoologist (respectively) 40-42. station in Pervomay; pp 40-42.

TOMOV, T., inzh.

A new technolgoy in obtaining the graphite concentrate from  
the complex ores of the Rhodope mines. Min delo 18 no. 2:  
33-35 F '63.

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5 no.2: 50-53 '60. (EEAI 9:11)

(Romances--History and criticism)  
(Bulgarians in France)  
(Epic poetry--History and criticism)

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1. NIGI, Sofia.

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SOLNYSHKIN, V.I., kand. khim. nauk; TOMOV, T.G., inzh.

Electron microscope study of particles in aqueous suspensions of  
ferrosilicon and separation of tin-bearing ores in them. Nauch.  
soob. IGD 20:145-148 '63. (MIRA 16:10)

(Electron microscopy)  
(Ore dressing--Equipment and supplies)

GRUEV, Blagoi; TOMOV, Vasil

Phyllophagous beetles (Chrysomelidae, Coleoptera), pests of some cultivated plants. Priroda Bulg 13 no.5:89-91 S-O '64.

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~~Indications and approach in surgical therapy of unilateral~~  
pulmonary echinococcosis with simultaneous hepatic echinococcosis.  
Khirurgiia, Sofia 9 no.10:865-869 1956.

1. Vissh meditsinski institut--sofiia fakultetska khirurgichna  
klinika Direktor: prof. G. Popov.

(ECHINOCOCCOSIS, surgery,  
liver & lungs (Bul))

(LIVER DISEASES, complications,  
echinococcosis with pulm. spreading, surg. (Bul))

(LUNG DISEASES, complications,  
liver, with hepatic spreading, surg. (Bul))

BULGARIA/General Problems of Pathology - Comparative Oncology.  
Tumors of Man.

U-3

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75567

Author : Tomov, Vl.

Inst : -

Title : Tumors of the Mediastinum of Neurogenic Origin and Their  
Clinical Significance.

Orig Pub : Khirurgiya (Bolg.), 1956, 9, No 5, 385-398

Abstract : 6 cases of suddessfully-operated neurogenic tumors in pas-  
terior mediastinum are discribed. Diagnosis was confirmed  
histologically. -- Ye.A. Skvirakaya.

Card 1/1

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